

SEQUENCE LISTING

<110> Anderson, Christen M.
 Davis, Robert E.
 Clevenger, William
 Wiley, Sandra Eileen
 Willer, Scott W.
 Szabo, Tomas R.
 Ghosh, Soumitra S.
 Moos, Walter H.
 Pei, Yazhong

<120> PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT),
 NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

<130> 660088.420D5

<140> US

<141> 2001-03-14

<160> 37

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 894

<212> DNA

<213> Homo sapien

<400> 1

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gccagcaaac	agatcagtg	tgagaagcag	tacaaaggga	tcattgattg	tgtggtgaga	180
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tacttcccca	ccaagctct	caacttcgcc	ttcaaggaca	agtacaagca	gctcttctta	300
gggggtgtgg	atcggcataa	gcagttctgg	cgctactttg	ctggtaacct	ggcgtccggt	360
ggggcgctg	gggccacctc	cctttgcttt	gtctaccgcg	tggactttgc	taggaccagg	420
ttggctgctg	atgtgggcag	gcgcgccccag	cgtgagttcc	atggtctggg	cgactgtatc	480
atcaagatct	tcaagtctga	tggcctgagg	gggctctacc	agggtttcaa	cgtctctgtc	540
caaggcatca	ttatctatag	agctgcctac	ttcggagtct	atgatactgc	caaggggatg	600
ctgcctgacc	ccaagaacgt	gcacattttt	gtgagctgga	tgattgcccc	gagtgtgacg	660
gcagtgcag	ggctgctgtc	ctaccctttt	gacactgttc	gtcgtagaat	gatgatgcag	720
tccggccgga	aaggggccga	tattatgtac	acggggacag	ttgactgctg	gaggaagatt	780
gcaaaagacg	aaggagccaa	ggccttcttc	aaagggtcct	ggtccaatgt	gctgagaggc	840
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<211> 897

<212> DNA

<213> Homo sapien

<400> 2

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gccagcaagc	agatcactgc	agataagcaa	tacaaaggga	ttatagactg	cgtgggtccgt	180
attcccaagg	agcaggaagt	tctgtccttc	tggcgcggtg	acctggccaa	tgatcatcaga	240

tacttcccca	cccaggtctt	taacttcgcc	ttcaaagata	aatacaagca	gatcttctctg	300
ggtggtgtgg	acaagagaac	ccagtttttg	cgctactttg	cagggaatct	ggcatcgggt	360
ggtgccgcag	gggccacatc	cctgtgtttt	gtgtaccctc	ttgattttgc	ccgtaccctg	420
ctagcagctg	atgtgggtaa	agctggagct	gaaagggaa	tccgaggcct	cggtgactgc	480
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attgctcgtg	atgaaggagg	caaagctttt	ttcaagggtg	catggtccaa	tgttctcaga	840
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<210> 3

<211> 897

<212> DNA

<213> Homo sapien

<400> 3

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gccagcaagc	agatcgccgc	cgacaagcag	tacaagggca	tcgtggactg	cattgtccgc	180
atccccaagg	agcagggcgt	gctgtccttc	tgagggggca	accttgccaa	cgctattcgc	240
tacttcccca	ctcaagccct	caacttcgcc	ttcaaagata	agtacaagca	gatcttctctg	300
gggggcgtgg	acaagcacac	gcagttcttg	aggtactttg	cgggcaacct	ggcctccggc	360
ggtgcggccg	gcgcgacctc	cctctgcttc	gtgtaccctc	tggtatttgc	cagaaccgcg	420
ctggcagcgg	acgtgggaaa	gtcaggcaca	gagcgcgagt	tccgaggcct	gggagactgc	480
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gtgcagggca	tcacatctta	ccgggcggcc	tacttcggcg	tgtacgatac	ggccaagggc	600
atgctccccg	accccaagaa	cacgcacatc	gtggtgagct	ggatgatcgc	gcagaccgtg	660
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cagtcggggc	gcaaaggagc	tgacatcatg	tacacgggca	ccgtcgactg	ttggaggaag	780
atcttcagag	atgagggggg	caaggccttc	ttcaaagggtg	cgtggtccaa	cgtcctgcgg	840
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<210> 4

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 4

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<210> 5

<211> 43

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<213> Artificial Sequence

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<223> PCR Primer

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<210> 6

<211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 6
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<210> 7
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 7
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<210> 8
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 8
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<210> 9
 <211> 44
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 9
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<210> 10
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 <212> DNA
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<220>
 <223> Sequence primer

<400> 10
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<210> 11
 <211> 18
 <212> DNA

Sequence

<213> Artificial Sequence
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 <223> Sequence primer
 <400> 11
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 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Mutagenic oligonucleotide primer
 <400> 12
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 <210> 13
 <211> 45
 <212> DNA
 <213> Artificial Sequence
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 <223> Mutagenic oligonucleotide primer
 <400> 13
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 <210> 14
 <211> 35
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 14
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 <210> 15
 <211> 34
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 15
 cccgggctcg agttagagtc accttcttga gctc 34
 <210> 16
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

 <400> 16
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 <400> 17
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 <210> 18
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 <220>
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 <400> 18
 aaatgataac catctcgc 18

 <210> 19
 <211> 18
 <212> DNA
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 <220>
 <223> Sequencing primer

 <400> 19
 acttcaagga gaatttcc 18

 <210> 20
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 acttcgcctt cacggata 18

 <210> 21
 <211> 18
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<400> 21
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<210> 22
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<220>
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<400> 22
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<210> 23
<211> 18
<212> DNA
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<220>
<223> Sequencing primer

<400> 23
atgccggttc ccgtacga 18

<210> 24
<211> 31
<212> DNA
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<220>
<223> Mutagenic oligonucleotide primer

<400> 24
ggcctgttcc gtcatttat cgtcatcgtc g 31

<210> 25
<211> 31
<212> DNA
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<220>
<223> Mutagenic oligonucleotide primer

<400> 25
cgacgatgac gataagatga cggaacaggc c 31

<210> 26
<211> 41
<212> DNA
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<220>
<223> PCR primer

<400> 26

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41

<210> 27

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 27

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41

<210> 28

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 28

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42

<210> 29

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 29

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42

<210> 30

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 30

Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe
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<210> 31

<211> 297

<212> PRT

<213> Homo sapien

<400> 31

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20 25 30

[illegible]

<400> 32

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			20					25					30		
Lys	Leu	Leu	Leu	Gln	Val	Gln	His	Ala	Ser	Lys	Gln	Ile	Thr	Ala	Asp
			35				40					45			
Lys	Gln	Tyr	Lys	Gly	Ile	Ile	Asp	Cys	Val	Val	Arg	Ile	Pro	Lys	Glu
	50					55					60				
Gln	Glu	Val	Leu	Ser	Phe	Trp	Arg	Gly	Asn	Leu	Ala	Asn	Val	Ile	Arg
65				70						75				80	
Tyr	Phe	Pro	Thr	Gln	Ala	Leu	Asn	Phe	Ala	Phe	Lys	Asp	Lys	Tyr	Lys
				85					90					95	
Gln	Ile	Phe	Leu	Gly	Gly	Val	Asp	Lys	Arg	Thr	Gln	Phe	Trp	Arg	Tyr
			100					105				110			
Phe	Ala	Gly	Asn	Leu	Ala	Ser	Gly	Gly	Ala	Ala	Gly	Ala	Thr	Ser	Leu
		115					120					125			

Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
 165 170 175
 Phe Asn Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220
 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
 245 250 255
 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 260 265 270
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
 275 280 285
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 290 295

<210> 33
 <211> 298
 <212> PRT
 <213> Homo sapien

<400> 33
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 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ala Ala Asp
 35 40 45
 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly
 165 170 175
 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220

Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
 245 250 255
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 260 265 270
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
 275 280 285
 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile
 290 295

<210> 34
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

<400> 34
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<210> 35
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

<400> 35
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<210> 36
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of EYFP

<400> 36
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<210> 37
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 <212> DNA
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<220>
 <223> Primer for PCR amplification of EYFP

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